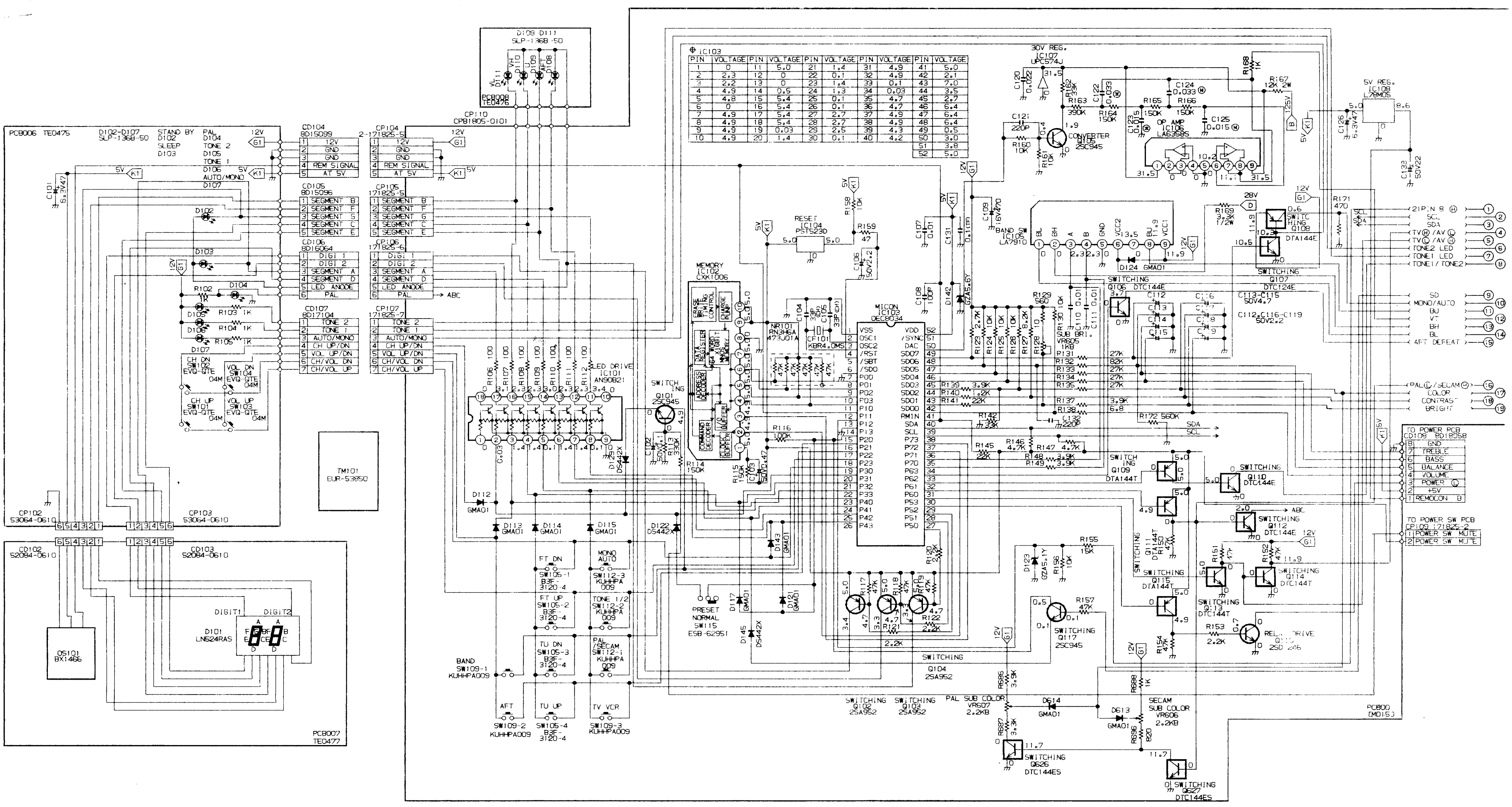
ORION 7088VT

MODEL

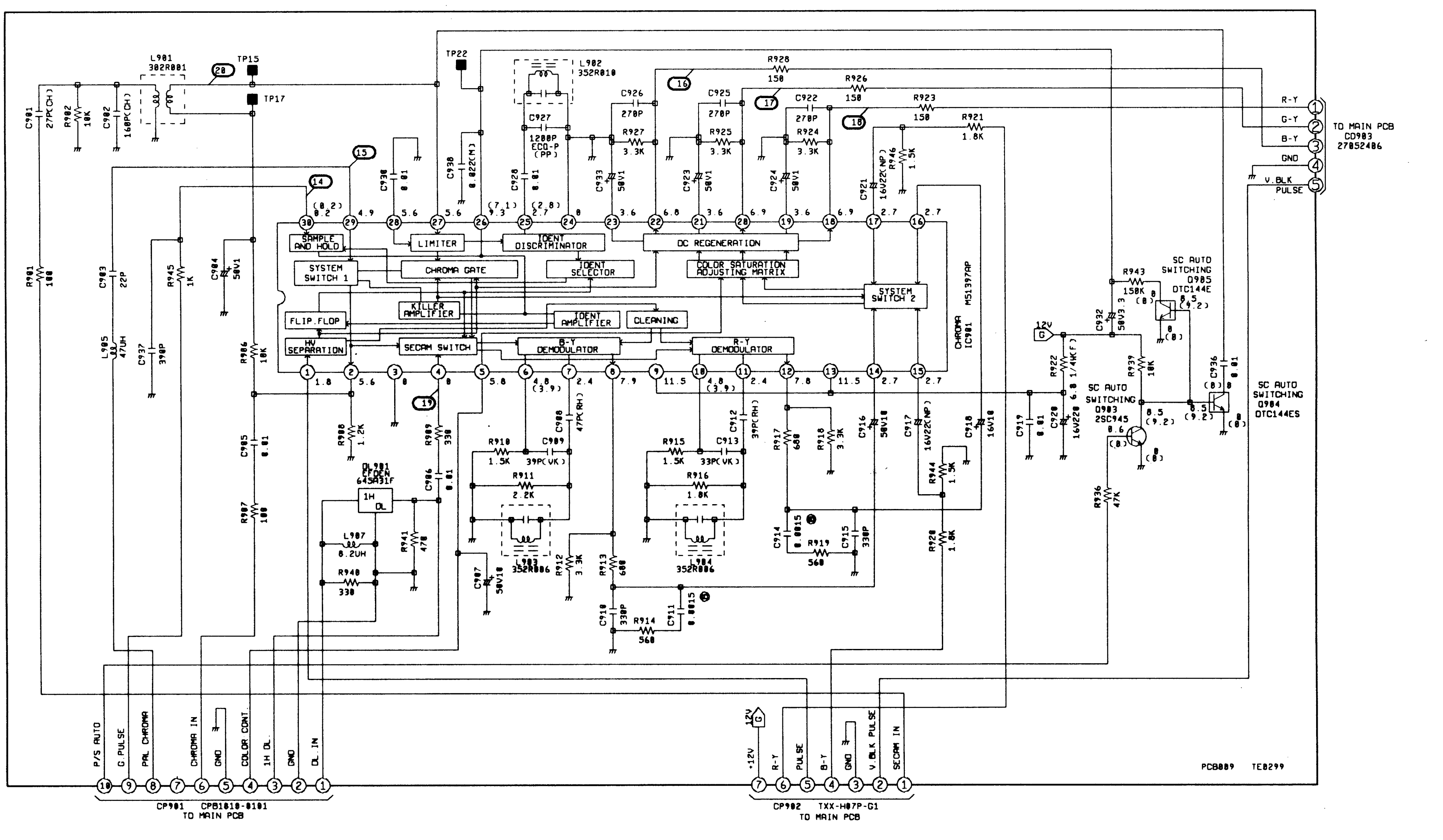
SERVICE MANUAL

SCHALTPLA



PCB006 TE0475
PCB007 TE0477
PCB008 TE0476
PCB00 [M015]
MEMORY IC102 CXK1006
MICON IC103 DEC8034
RESET IC104 PST523D
BAND SW IC105 LA7910
OP AMP IC106 LA6358S
30V REG. IC107 UPC574J
5V REG. IC108 L78M05
LED DRIVE IC101 AN90B21
TM101 EUR-53850
DS101 BX1466
D101 LN524RAS
TO POWER PCB CD108 8D18058
TO POWER SW PCB CP109 171825-2

PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE	PIN	VOLTAGE
1	0	11	5.0	21	1.4	31	4.9	41	5.0
2	2.3	12	0	22	0.1	32	4.9	42	2.1
3	2.2	13	0	23	1.4	33	0.1	43	7.0
4	4.9	14	0.5	24	1.3	34	0.03	44	3.5
5	4.8	15	5.4	25	0.1	35	4.7	45	2.7
6	0	16	5.4	26	0.1	36	4.7	46	6.4
7	4.9	17	5.4	27	2.7	37	4.9	47	6.4
8	4.9	18	5.4	28	2.7	38	4.9	48	6.4
9	4.9	19	0.03	29	2.5	39	4.3	49	0.5
10	4.9	20	1.4	30	0.1	40	4.2	50	3.0
								51	3.8
								52	5.0



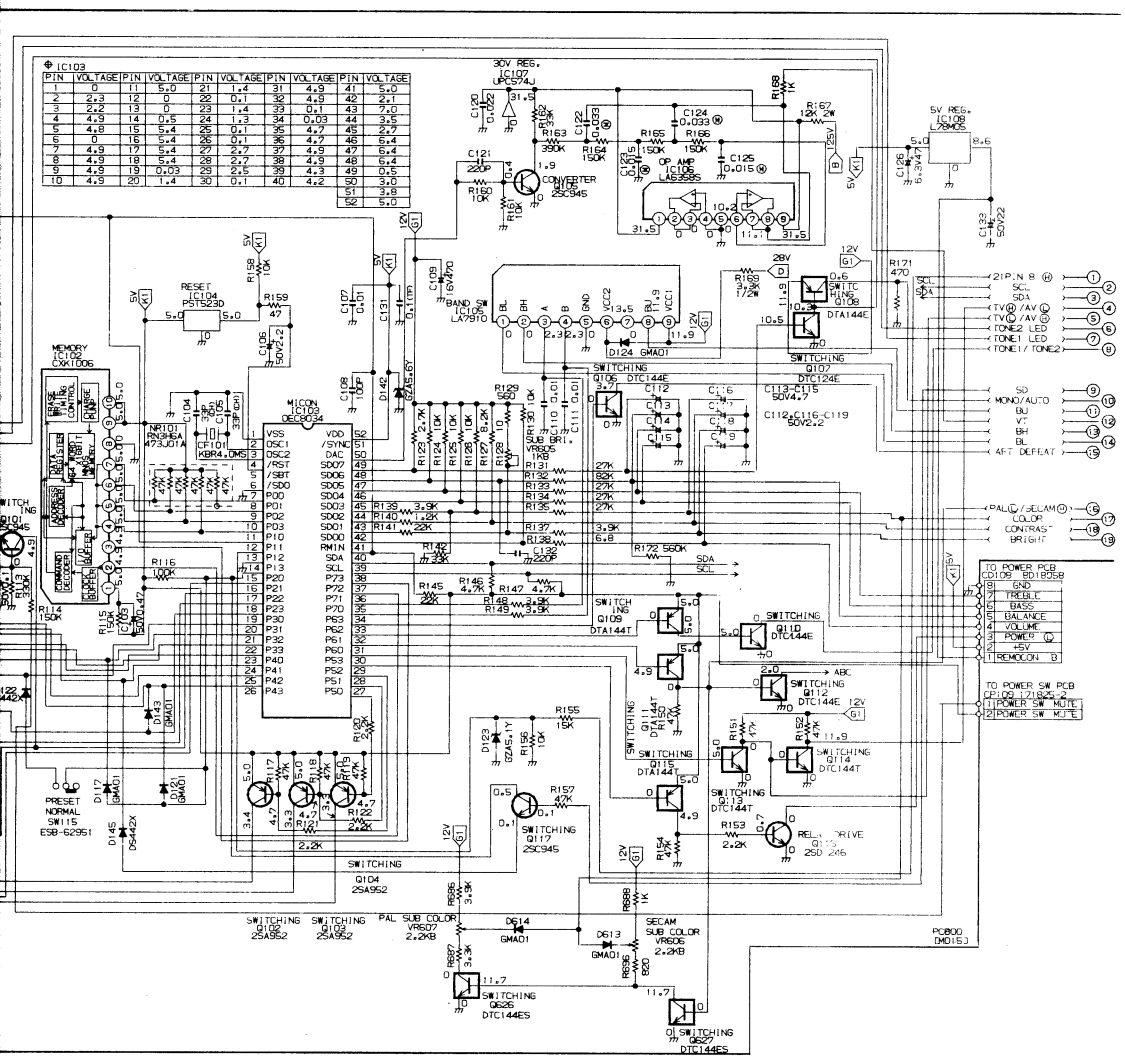
CHROMA IC901 M51397AP
SAMPLE AND HOLD
SYSTEM SWITCH 1
LIMITER
IDENT DISCRIMINATOR
CHROMA GATE
IDENT SELECTOR
DC REGENERATION
COLOR SATURATION ADJUSTING MATRIX
SYSTEM SWITCH 2
KILLER AMPLIFIER
IDENT AMPLIFIER
CLEANING
FLIP.FLOP
HV SEPARATION
SECAM SWITCH
B-Y DEMODULATOR
R-Y DEMODULATOR
TO MAIN PCB CD903 27052406
CP901 CPB1010-0101 TO MAIN PCB
CP902 TXX-H07P-G1 TO MAIN PCB
PCB009 TE0299

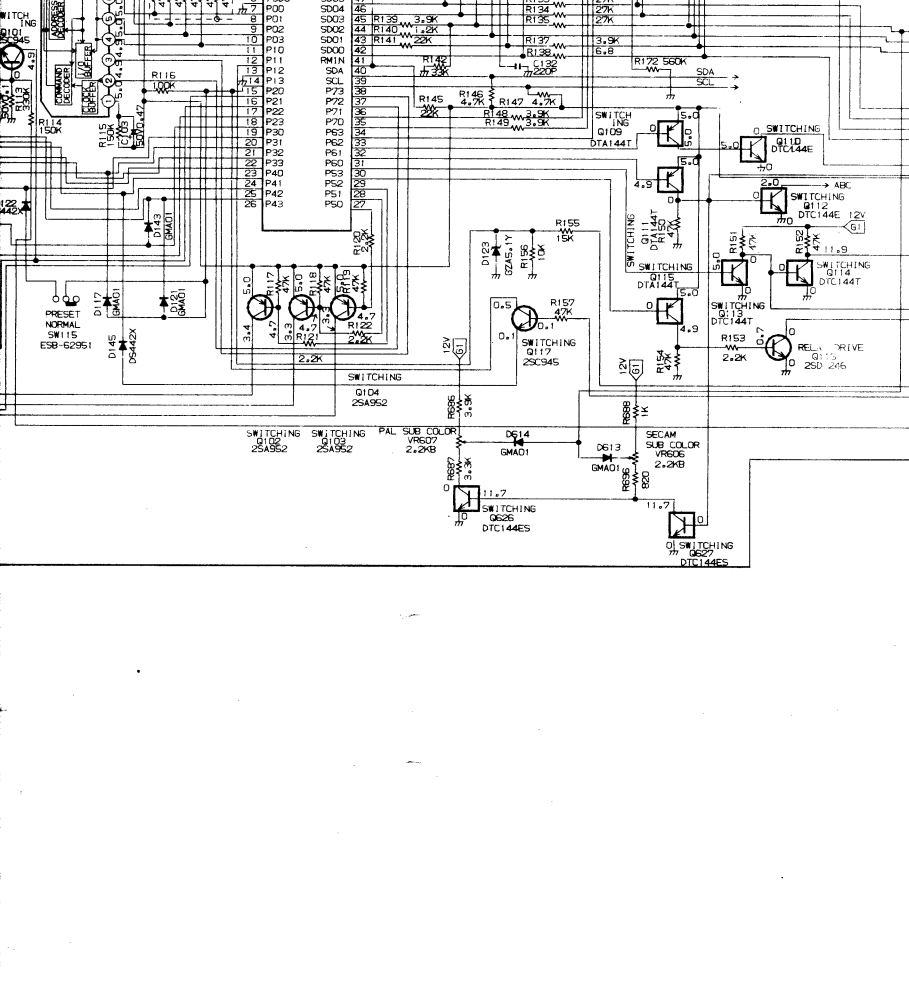
ACHTUNG

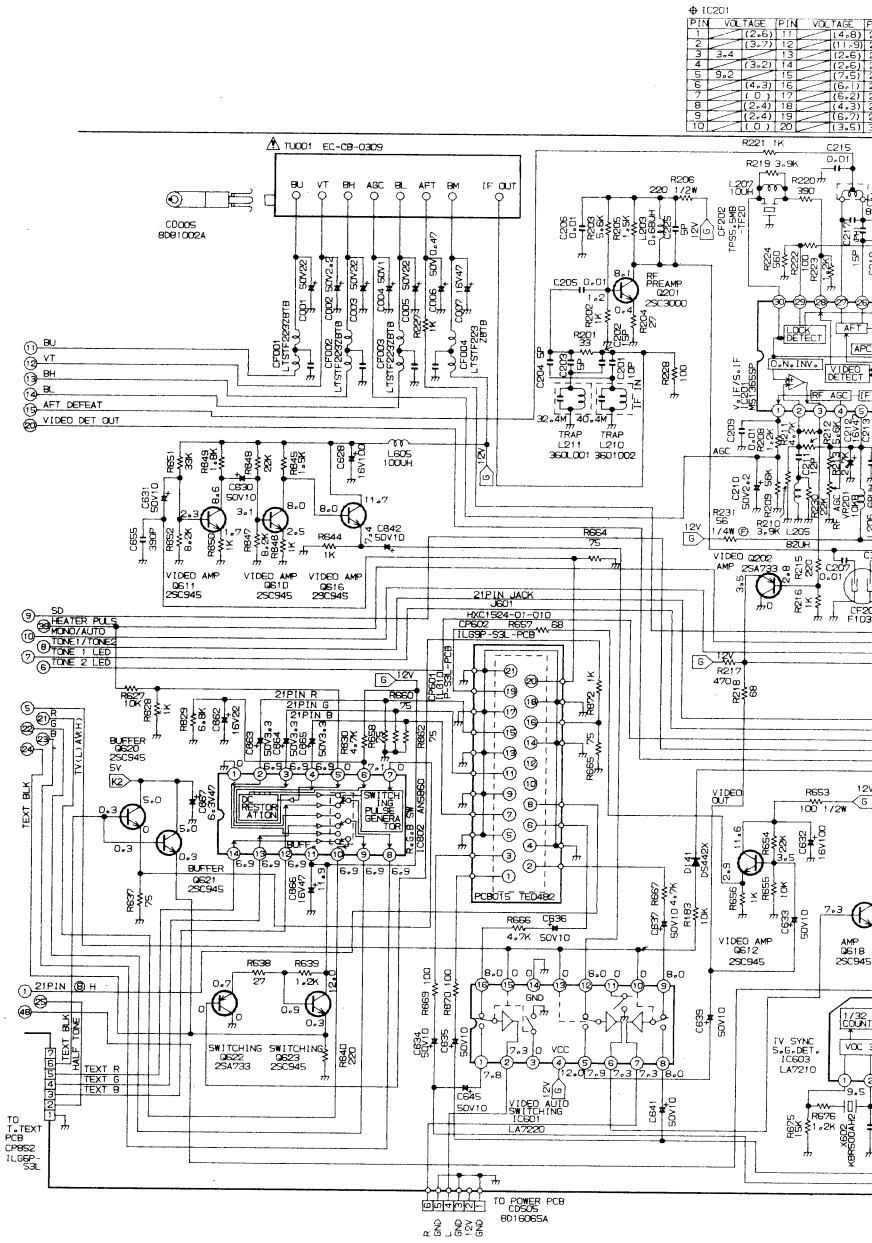
ACHTUNG

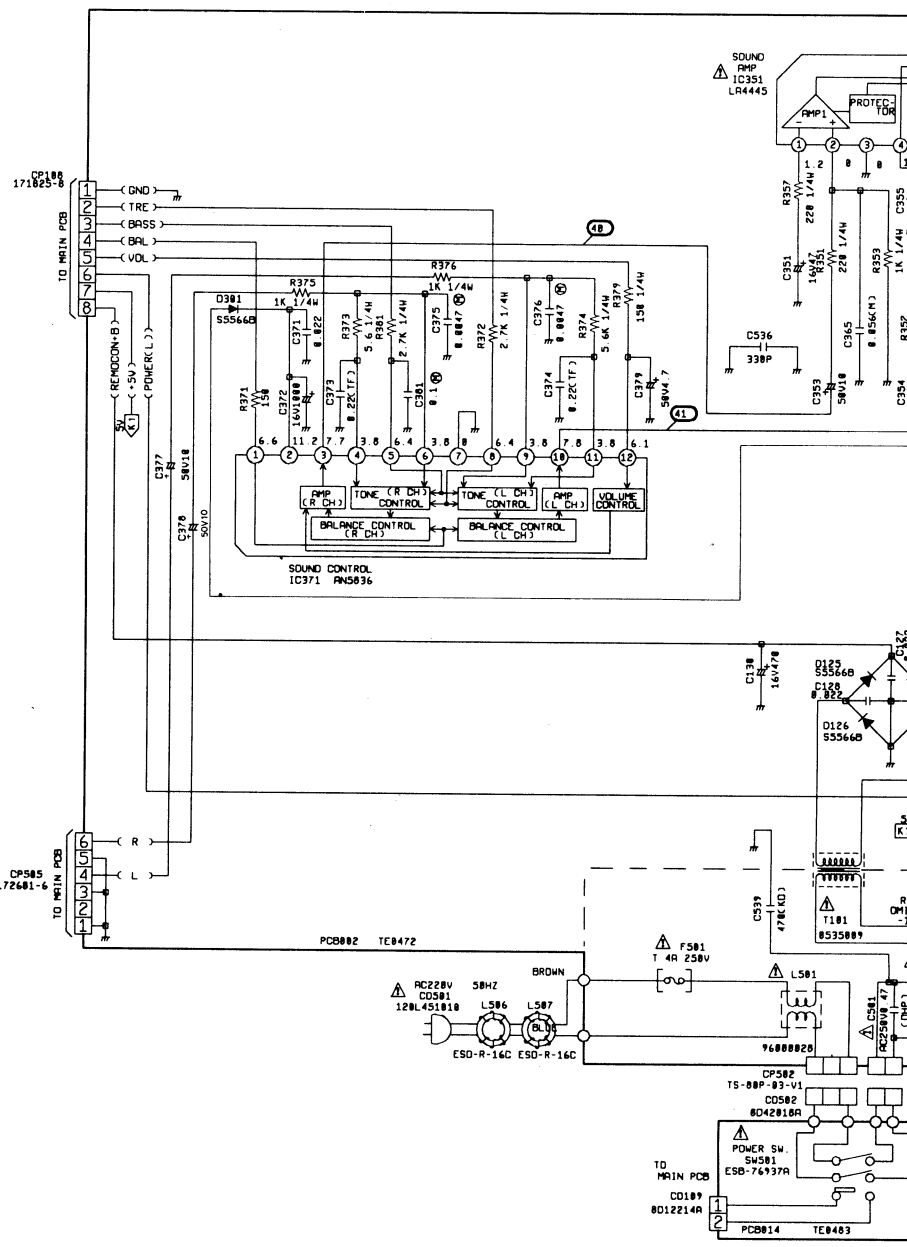
VORSICHT: MIT ⚠ MARKIE
KRITISCH FÖR
DES GERÄTES.
LIESSLICH ORI
TEILELISTE AUF

SCHALTPLAN (CHASSIS)

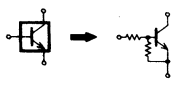








ACHTUNG



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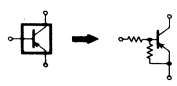


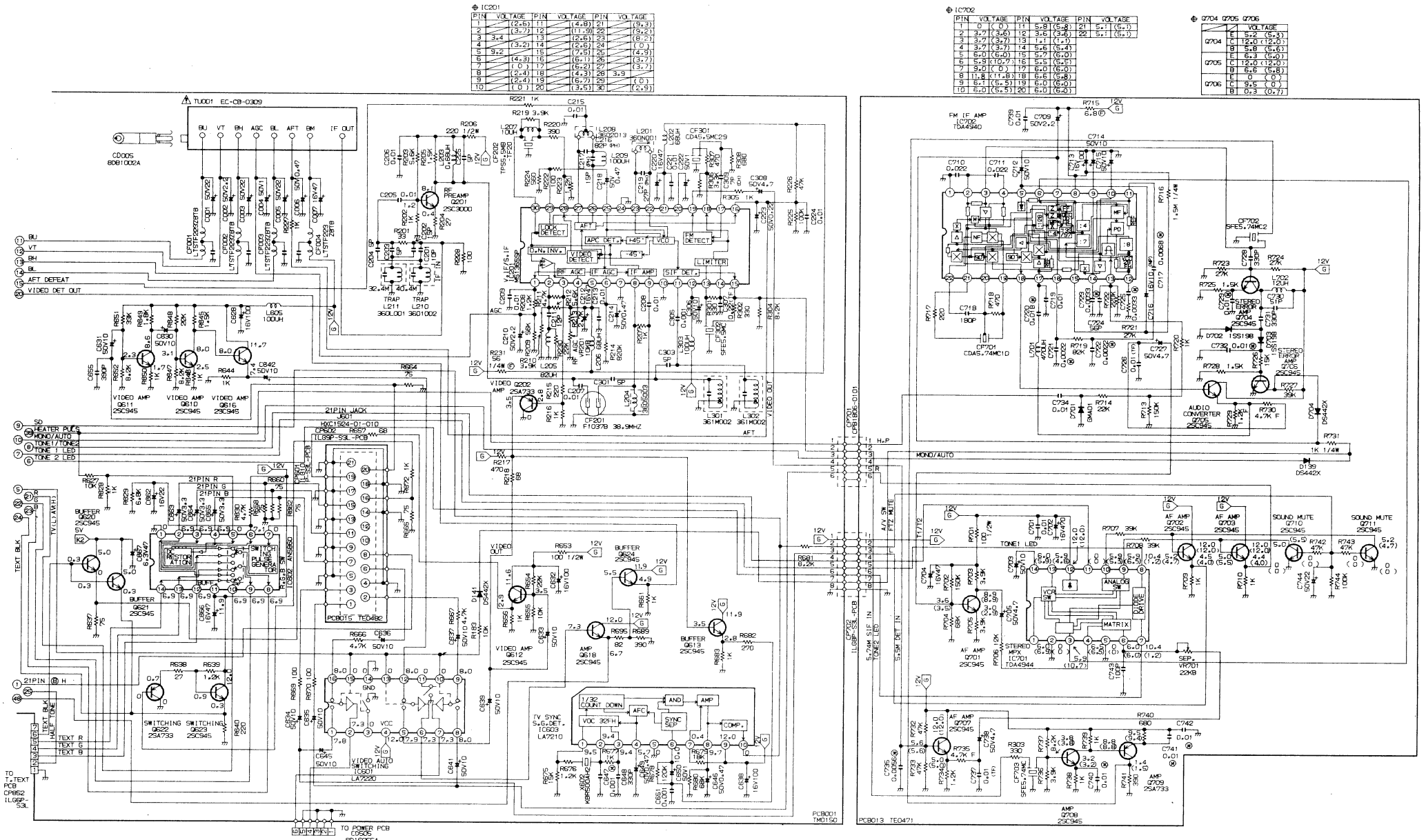
VORSICHT: MIT ⚠ MARKIERTE TEILE SIND BESONDERS KRITISCH FÜR DIE BETRIEBSSICHERHEIT DES GERÄTES. ES SIND DAHER AUSSCHLIESSLICH ORIGINAL TEILE; WIE IN DER TEILELISTE AUFGERÜHRT, ZU VERWENDEN.

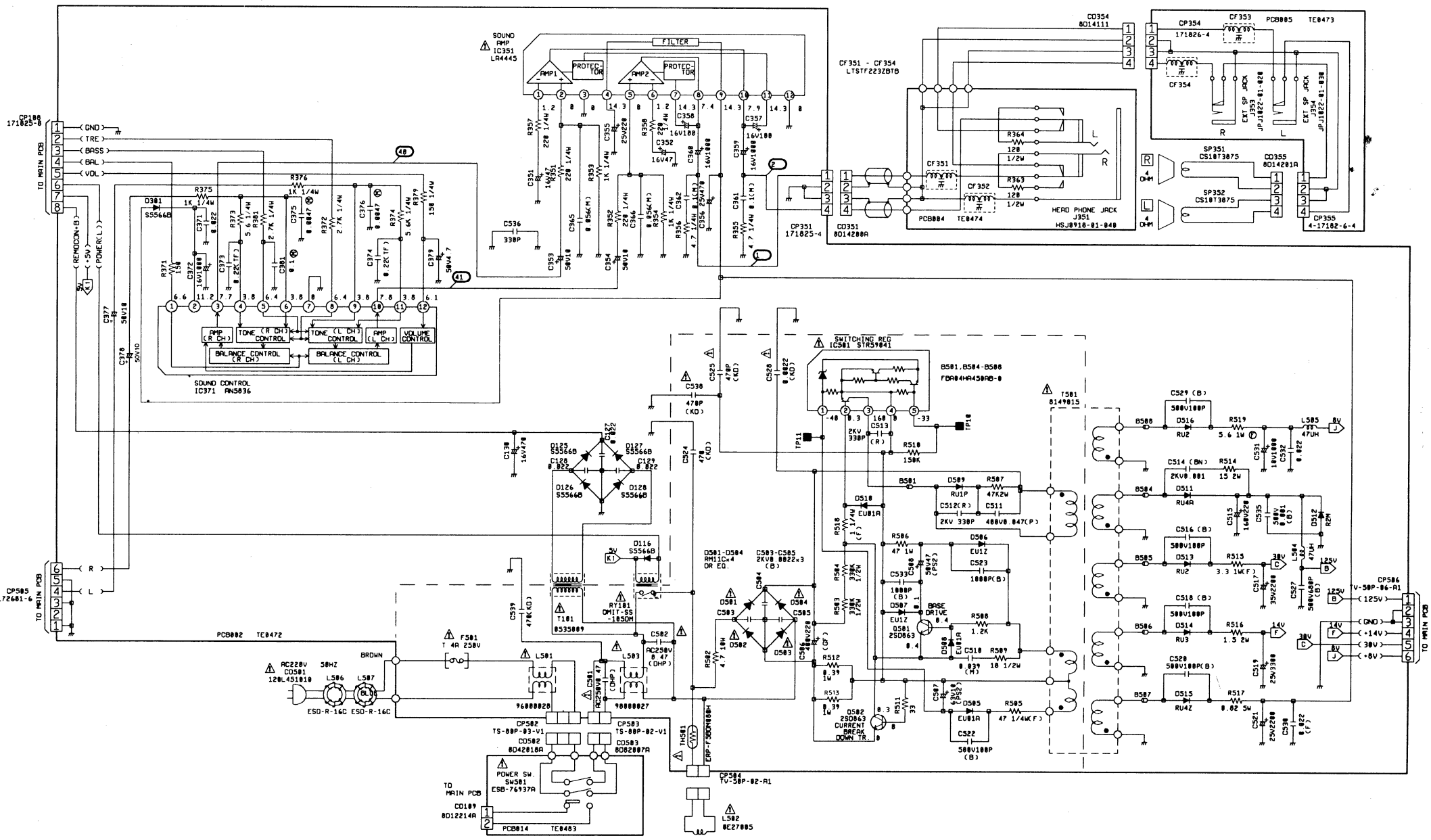
ACHTUNG: DIESES SCHALTBILD ENTSPRICHT DEM NEUESTEN STAND. ÄNDERUNGEN VORBEHALTEN.

N (CHASSIS)

12K

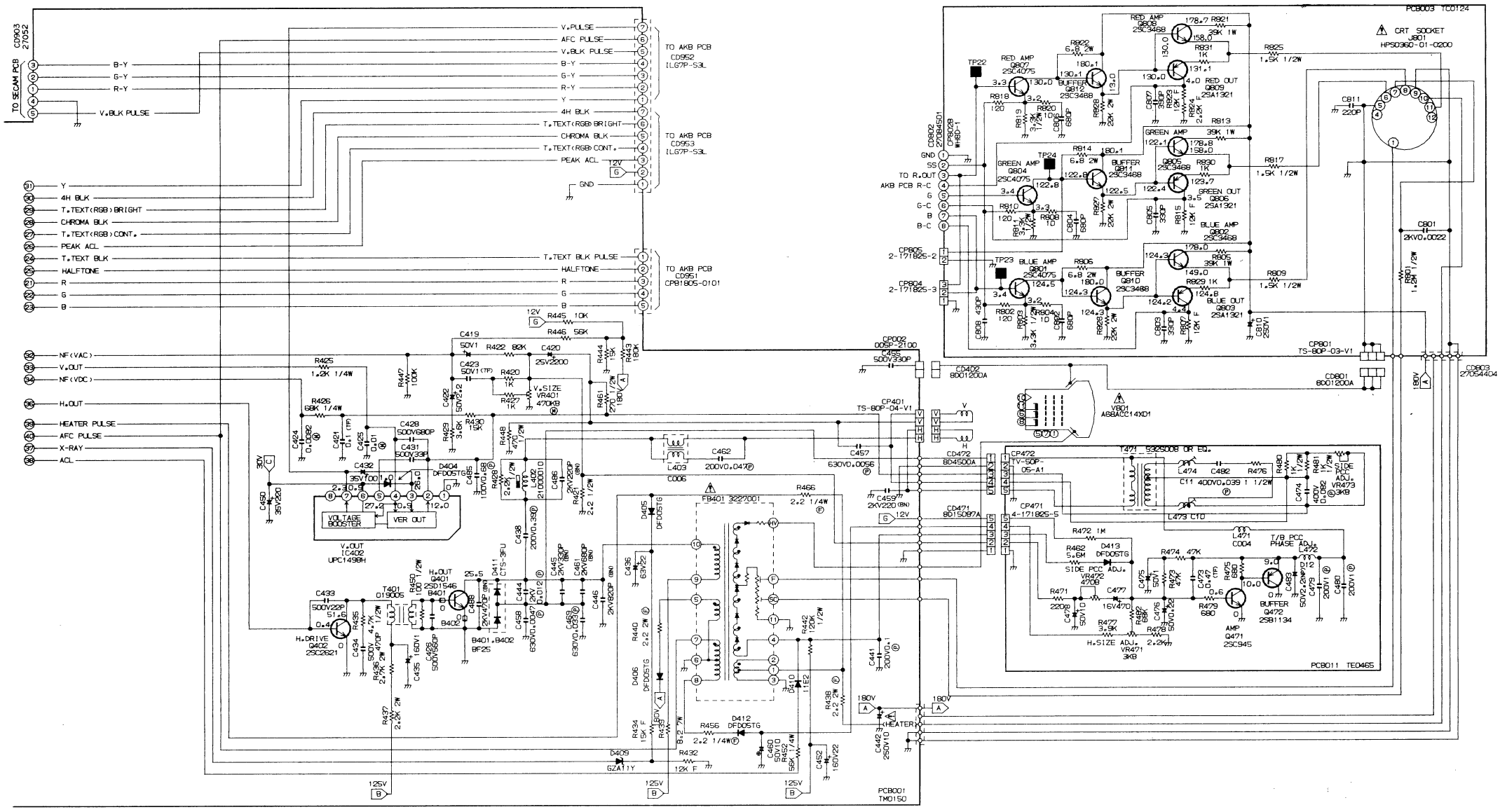
MODEL: COLOR 7088VT





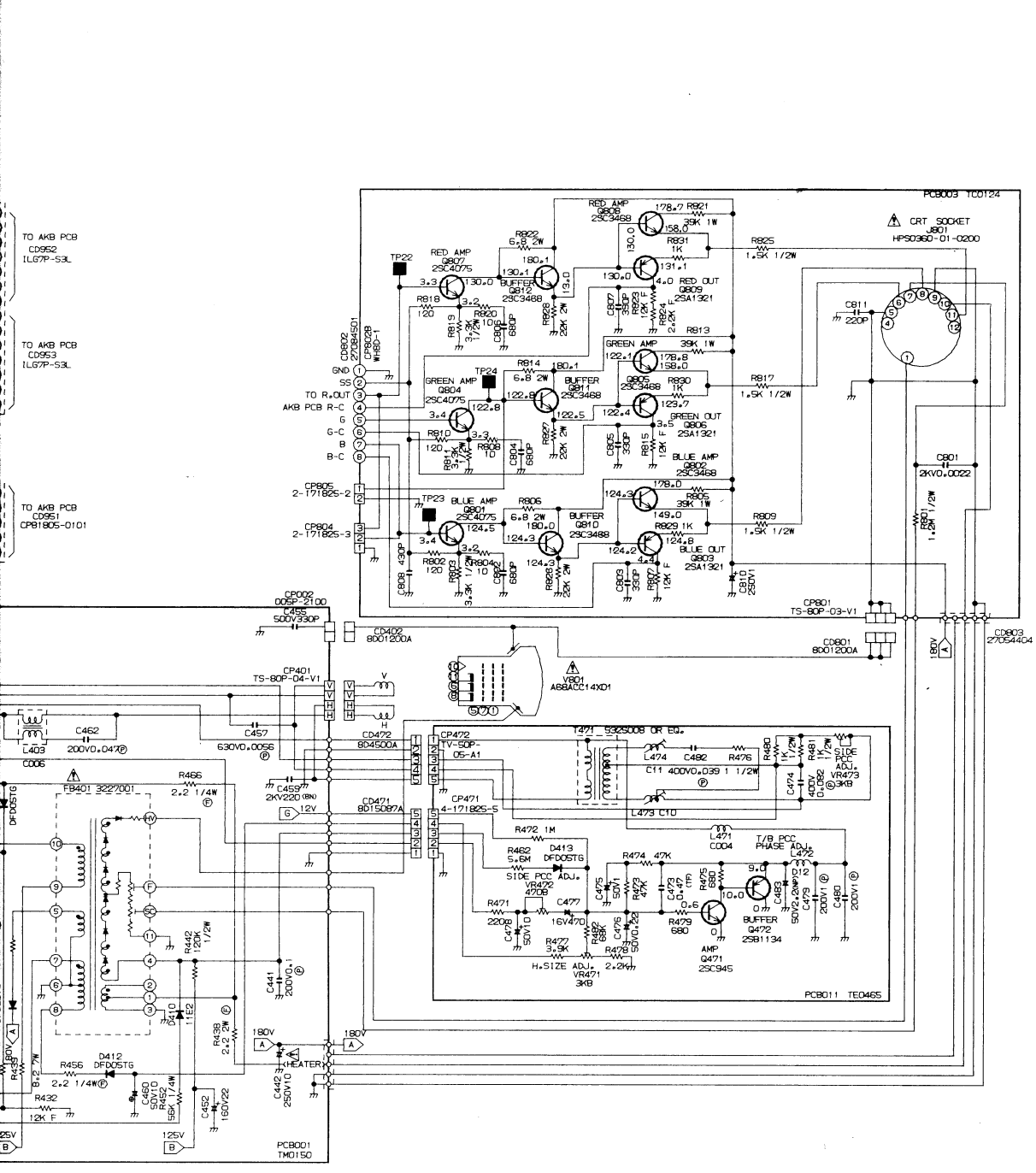
TEILE SIND BESONDERS
E BETRIEBSSICHERHEIT
S SIND DAHER AUSSCH-
AL TEILE; WIE IN DER
RÜHRT, ZU VERWENDEN.

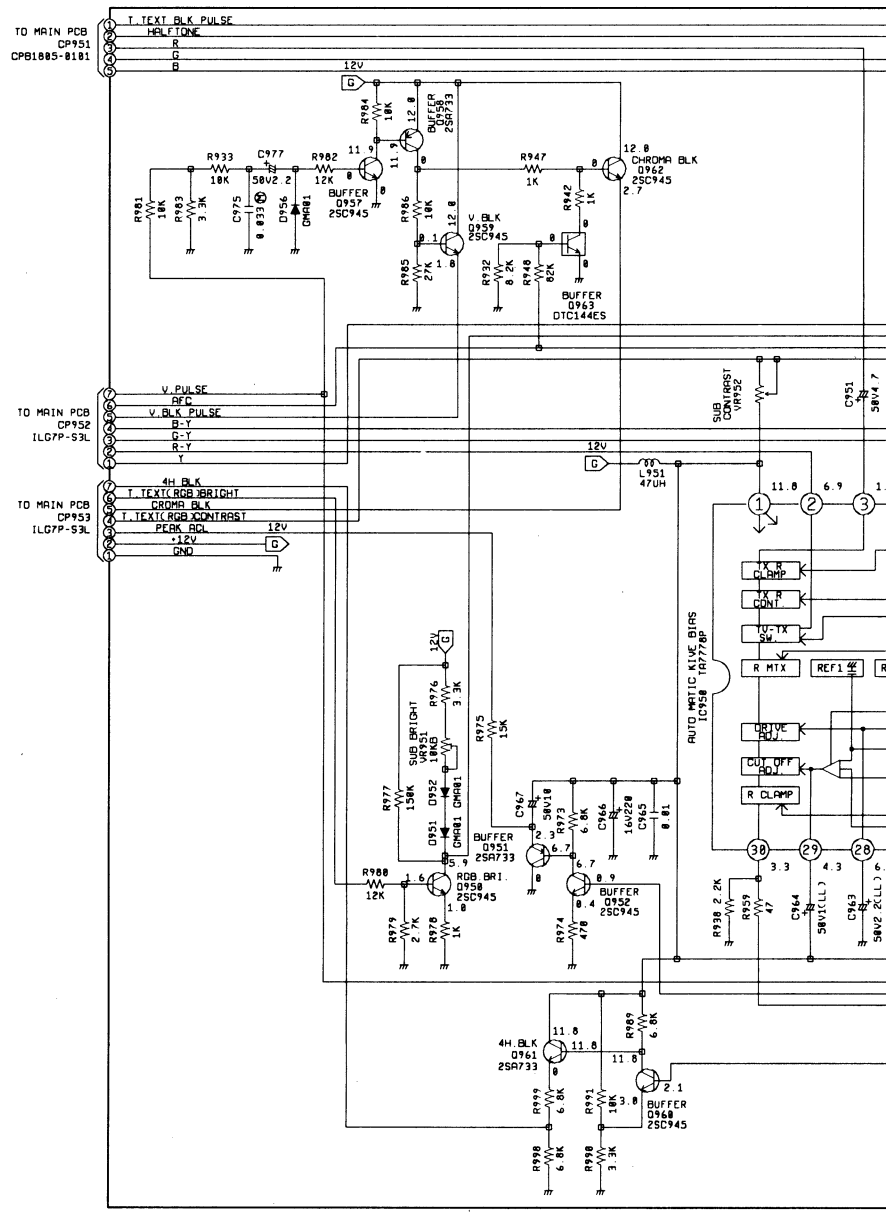
ACHTUNG: DIESES SCHALTBILD ENTSPRICHT DEM NEUESTEN STAND. ÄNDERUNGEN VORBEHALTEN.

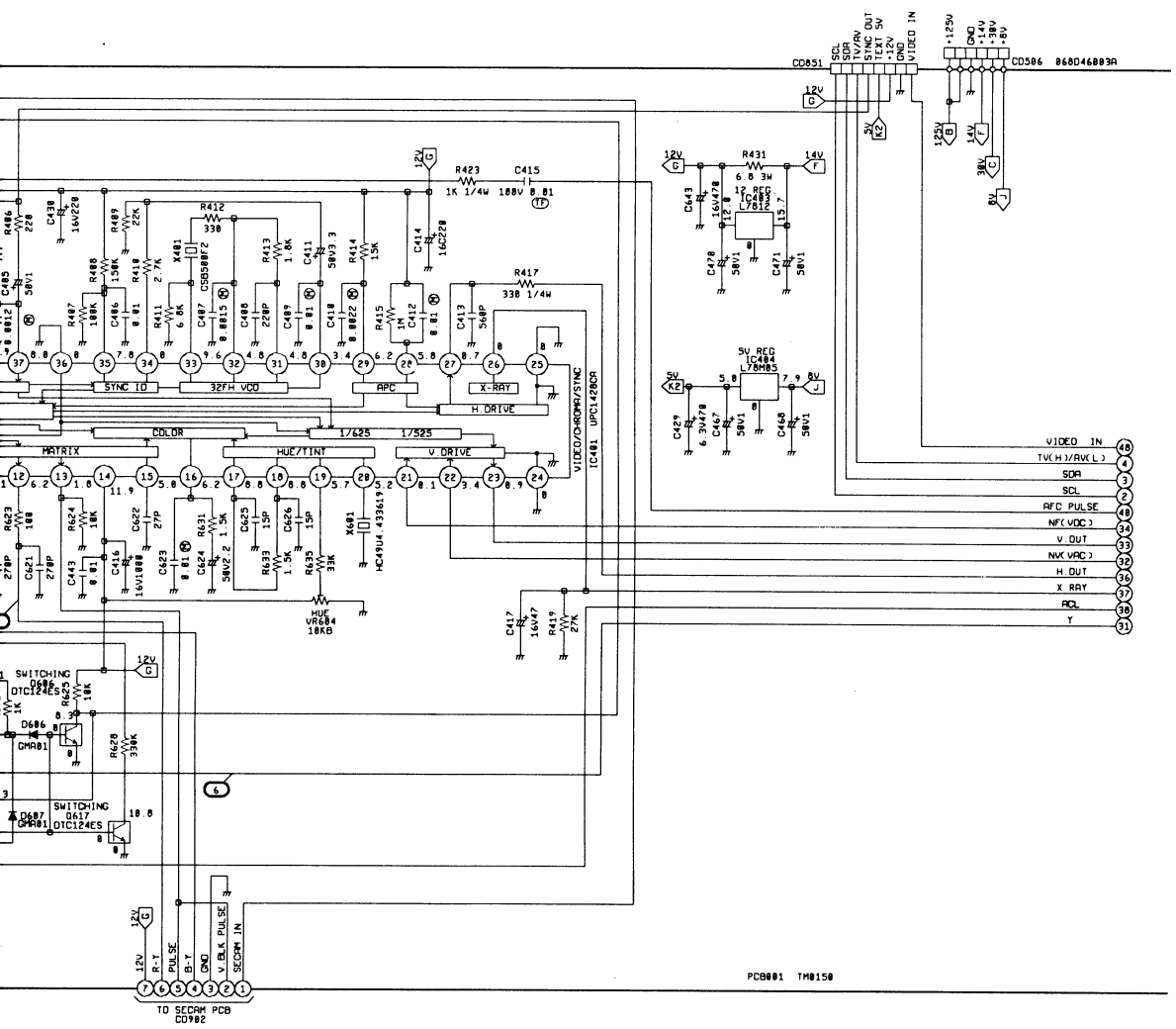

TO SECAM PCB CD903 27052
B-Y
G-Y
R-Y
V.BLK PULSE
TO AKB PCB CD952 ILG7P-S3L
V.PULSE
AFC PULSE
V.BLK PULSE
B-Y
G-Y
R-Y
Y
TO AKB PCB CD953 ILG7P-S3L
4H BLK
T.TEXT(RGB) BRIGHT
CHROMA BLK
T.TEXT(RGB) CONT.
PEAK ACL
GND
TO AKB PCB CD951 CPB180S-0101
Y
4H BLK
T.TEXT(RGB) BRIGHT
CHROMA BLK
T.TEXT(RGB) CONT.
PEAK ACL
T.TEXT BLK
HALFTONE
R
G
B
T.TEXT BLK PULSE
HALFTONE
R
G
B
NF(VAC)
V.OUT
NF(VDC)
H.OUT
HEATER PULSE
AFC PULSE
X-RAY
ACL
CP002 005P-2100
CD402 8D01200A
CP401 TS-80P-04-V1
CD472 8D4500A
CD471 8D15087A
CP472 TV-60P-05-A1
CP471 4-171825-5
CP805 2-171825-2
CP804 2-171825-3
CP801 TS-80P-03-V1
CD801 8D01200A
CD803 27054404
CRT SOCKET J801 HPS0360-01-C200
CD802 27084501 CR8C08 W-8D-1
TP22 RED AMP Q807 2SC4075
TP24 GREEN AMP Q804 2SC4075
TP23 BLUE AMP Q801 2SC4075
BUFFER Q812 2SC3488
BUFFER Q811 2SC3488
BUFFER Q810 2SC3488
RED AMP Q806 2SC3488
GREEN AMP Q805 2SC3488
BLUE AMP Q802 2SC3488
RED OUT Q809 2SA1321
GREEN OUT Q806 2SA1321
BLUE OUT Q803 2SA1321
A68ACC14XD1
T471 S325008 OR EQ.
L471 C004
T/B PCC PHASE ADJ. L472
SIDE PCC ADJ. VR472 250B
H.SIZE ADJ. VR471 3KB
BUFFER Q472 2SB1134
AMP Q471 2SC945
PCB011 TE0465
V.OUT IC402 UPC1498H
VOLTAGE BOOSTER
VER OUT
H.DRIVE Q402 2SC2621
H.OUT Q401 2SD1546
B401,B402 BF25
FB401 3227001
T401 D1900S
D411 CTS-3FU
D404 DFD05TG
D405 DFD05TG
D406 DFD05TG
D412 DFD05TG
D409 GZA11Y
D410 11E2
L403 C005
PCB001 TM0150

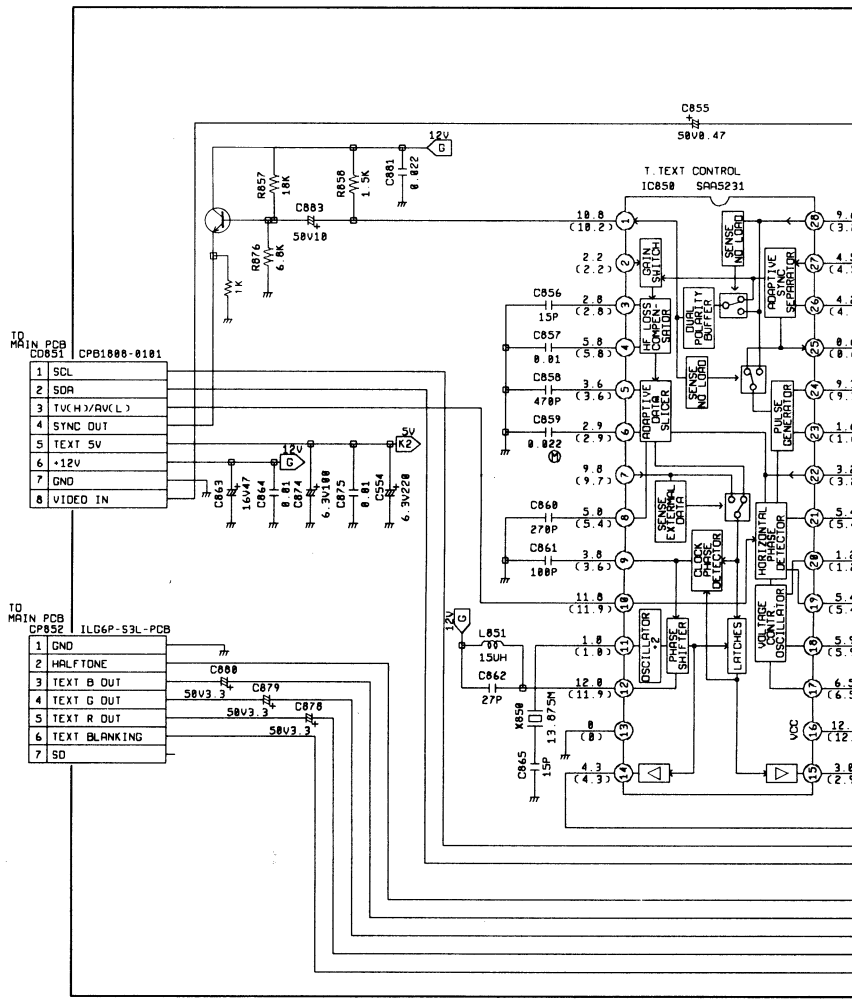
VIDEO DET OUT
PEAK ACL
T.TEXT RGB CONTRAST
CHOMA BLK
T.TEXT RGB BRIGHT
PAL(L)/SECAM(H)
COLOR
CONT
BRIGHT
4H BLK
CD851
CD586 868D46883A
SCL
SDA
TV/AV
SYNC OUT
+12V
GND
VIDEO IN
-125V
GND
-14V
+38V
+8V
VIDEO
SYNC SEP
SYNC ID
32FH VCO
APC
X-RAY
H.DRIVE
CHROMA
G.P
1/32
PAL/NTSC
MATRIX
COLOR
1/625
1/525
HUE/TINT
V.DRIVE
VIDEO/CHROMA/SYNC IC401 UPC1428CA
VIDEO IN
TV(H)/AV(L)
SDA
SCL
AFC PULSE
NF(VDC)
V.OUT
NF(VAC)
H.OUT
X RAY
ACL
Y
P/S AUTO
C.PULSE
PAL CHROMA
CHROMA IN
GND
COLOR CONT
1H DL
GND
DL IN
TO SECAM PCB CD901
R-Y
PULSE
B-Y
GND
V.BLK PULSE
SECAM IN
TO SECAM PCB CD902
PCB001 TM0150

3620403B


TO AKB PCB CD952 ILG7P-S3L
TO AKB PCB CD953 ILG7P-S3L
TO AKB PCB CD951 CPB1805-0101
PCB003 TC0124
CRT SOCKET J801 HPS0360-01-0200
RED AMP Q807 2SC4075
BUFFER Q812 2SC3488
RED OUT Q809 2SA1321
GREEN AMP Q804 2SC4075
BUFFER Q811 2SC3488
GREEN OUT Q806 2SA1321
BLUE AMP Q801 2SC4075
BUFFER Q810 2SC3488
BLUE OUT Q803 2SA1321
CP805 2-171825-2
CP804 2-171825-3
CP802 27084501
CP802B WH80-1
CP801 TS-80P-03-V1
CD803 27054404
CD801 8D01200A
CD802 8D01200A
CP002 005P-2100
CP401 TS-80P-04-V1
CD472 8D4500A
CD471 8D15087A
CP472 TV-50P-05-A1
CP471 4-171825-5
V801 A68ACC14XD1
T471 5325008 OR EQ.
PCB011 TE0465
PCB001 TM0150
FB401 3227001
DFD05TG
SIDE PCC ADJ. VR472 470B
H.SIZE ADJ. VR471 3KB
T/B PCC PHASE ADJ. L472
SIDE PCC ADJ. VR473 3KB
BUFFER Q472 2SB1134
AMP Q471 2SC945
5V REG IC484 L78M05
180V
125V
12V


TO MAIN PCB CP951 CPB1805-0101
T.TEXT BLK PULSE
HALFTONE
R
G
B
TO MAIN PCB CP952 ILG7P-S3L
V.PULSE
AFC
V.BLK PULSE
B-Y
G-Y
R-Y
Y
TO MAIN PCB CP953 ILG7P-S3L
4H BLK
T.TEXT(RGB)BRIGHT
CROMA BLK
T.TEXT(RGB)CONTRAST
PEAK AGL
12V
GND
CHROMA BLK Q962 2SC945
V BLK Q959 2SC945
BUFFER Q963 DTC144ES
BUFFER Q957 2SC945
BUFFER Q958 2SA733
L951 47UH
SUB CONTRAST VR952
AUTO MATIC KINE BIAS IC950 TA7778P
TX R CLAMP
TX R CONT
TV-TX SW.
R MIX
REF1
DRIVE ADJ.
CUT OFF ADJ.
R CLAMP
SUB BRIGHT VR951
RGB BRI. Q950 2SC945
BUFFER Q952 2SC945
4H.BLK Q961 2SA733
BUFFER Q960 2SC945


CD851
CD586 868D46803A
SCL
SDA
TV(H)/AV
SYNC OUT
TEXT 5V
+12V
GND
VIDEO IN
+125V
GND
+14V
+30V
+8V
SYNC ID
32fH VCO
APC
X-RAY
H.DRIVE
COLOR
1/625
1/525
MATRIX
HUE/TINT
V.DRIVE
VIDEO/CHROMA/SYNC IC481 UPC1420CA
VIDEO IN
TV(H)/AV(L)
SDA
SCL
AFC PULSE
NF(VDC)
V.OUT
NV(VAC)
H.OUT
X RAY
AGL
Y
SWITCHING Q616 DTC124ES
SWITCHING Q617 DTC124ES
SWITCHING Q686 DTC124ES
SECAM IN
V.BLK PULSE
GND
B-Y
PULSE
R-Y
TO SECAM PCB CD902
PCB001 TM0150


T.TEXT CONTROL IC850 SAA5231
TO MAIN PCB CD851 CPB1808-0101
1 SCL
2 SDA
3 TV(H)/AV(L)
4 SYNC OUT
5 TEXT 5V
6 +12V
7 GND
8 VIDEO IN
TO MAIN PCB CP852 ILG6P-S3L-PCB
1 GND
2 HALFTONE
3 TEXT B OUT
4 TEXT G OUT
5 TEXT R OUT
6 TEXT BLANKING
7 SD
GAIN SWITCH
DUAL POLARITY BUFFER
HF LOSS COMPEN-SATOR
ADAPTIVE DATA SLICER
SENSE NO LOAD
ADAPTIVE SYNC SEPARATOR
PULSE GENERATOR
SENSE EXTERNAL DATA
CLOCK PHASE DETECTOR
HORIZONTAL PHASE DETECTOR
VOLTAGE CONTR. OSCILLATOR
OSCILLATOR ÷2
PHASE SHIFTER
LATCHES
L851 15UH
X850 13.875M
C865 15P
C862 27P
VCC

TO MAIN PCB CP951 CPB1885-0101
T.TEXT BLK PULSE
HALFTONE
R
G
B
12V
BUFFER Q958 2SA733
CHROMA BLK Q962 2SC945
BUFFER Q957 2SC945
V.BLK Q959 2SC945
BUFFER Q963 DTC144ES
TO MAIN PCB CP952 ILG7P-S3L
V.PULSE
AFC
V.BLK PULSE
B-Y
G-Y
R-Y
Y
TO MAIN PCB CP953 ILG7P-S3L
4H BLK
T.TEXT(RGB)BRIGHT
CHROMA BLK
T.TEXT(RGB)CONTRAST
PEAK ACL
+12V
GND
SUB CONTRAST VR952
SUB BRIGHT VR951
AUTO MATIC KIVE BIAS IC950 TA7778P
R MTX
G MTX
B MTX
REF1
REF2
DRIVE ADJ.
CUT OFF ADJ.
R CLAMP
G CLAMP
B CLAMP
TX R CLAMP
TX G CLAMP
TX B CLAMP
TX R CONT.
TX G CONT.
TX B CONT.
TV-TX SW
PULSE SHAPING
BLK SEP
HALFTONE
TV-TX SW
REF IN/OUT
CHROMA SW
T1 T2 PULSE OSC
BLK OSC
RGB CLAMP Q954 2SC945
BUFFER Q953 2SA952
RGB BRI. Q958 2SC945
BUFFER Q952 2SC945
BUFFER Q951 2SA733
4H BLK Q961 2SA733
BUFFER Q960 2SC945
TO CRT PCB CD882 27P84501
1 GND
2 SS
3 R OUT
4 R-C
5 G
6 G-C
7 B
8 B-C
PCB012 TE0478

TO MAIN PCB CD851 CPB1886-0101
1 SCL
2 SDA
3 TV(CH)/AV(CL)
4 SYNC OUT
5 TEXT 5V
6 +12V
7 GND
8 VIDEO IN
TO MAIN PCB CP852 ILG6P-S3L-PCB
1 GND
2 HALFTONE
3 TEXT B OUT
4 TEXT G OUT
5 TEXT R OUT
6 TEXT BLANKING
7 SD
T.TEXT CONTROL IC850 SAA5231
T.TEXT CHARACTER GENERATOR IC851 SAA5243
T.TEXT MEMORY IC852 LC3517A-15
MEMORY INTERFACE
DATA ACQUISITION
TIMING CHAIN
CHARACTER GENERATOR
I²C INTERFACE AND CONTROL
SWITCH DI144I OR EQ.
PCB010 TE0479